CLAIMS

 A method for improving video picture processing according to a known scheme,

wherein the scheme includes $n \times m$ intra-block prediction with a prediction direction, where n and m are integers greater than 1,

wherein the intra-block prediction mode selected in the coding of a block is indicated in the coded bit stream;

wherein the video pictures are acquired, coded, transmitted, decoded, and displayed; the method comprising:

processing the video pictures according to the known scheme;

identifying the prediction mode for an $n \times m$ block being processed;

if the prediction mode has a prediction direction and the prediction direction is a "second quadrant direction" or a "fourth quadrant direction," then processing the block through a filter, and

continuing processing the video pictures.

- 2. The method in Claim 1, wherein the processing the block through a filter is after the block being decoded according to the selected prediction mode and before the block being displayed.
- 3. The method in Claim 2, wherein the filter is a one-dimensional horizontal filter.
 - 4. The method in Claim 3, wherein the filter is an *l*-tap FIR filter.
- 5. The method in Claim 4, wherein the l-tap FIR filter is a [1/4, 1/2, 1/4] FIR filter.
 - 6. The method in Claim 2, wherein the filter is a one-dimensional vertical filter.
 - 7. The method in Claim 2, wherein the filter is a two-dimensional filter.

- 8. The method in Claim 1, wherein the known scheme includes a decoding process in compliance with H.264.
- 9. The method in Claim 8, wherein the prediction direction is one of the directions of mode 3, mode 7 or mode 8 of the intra-block prediction modes of H.264.
 - 10. The method in Claim 9, wherein the $n \times m$ block is the 4x4 block.
- 11. The method in Claim 10, wherein processing the block through a filter is after the block is decoded according to the selected prediction mode.
- 12. The method in Claim 11, wherein the filter is a one-dimensional horizontal filter.
 - 13. The method in Claim 12, wherein the filter is a 3-tap [1/4, 1/2, 1/4] FIR filter.
 - 14. The method in Claim 11, wherein the filter is a one-dimensional vertical filter.
 - 15. The method in Claim 11, wherein the filter is a two-dimensional filter.
- 16. The method in Claim 10, further comprising:

 processing the 16x16 macroblock through the filter, wherein the 4x4 block is a portion of the 16x16 macroblock.
- 17. A method for improving video picture processing according to a known scheme,

wherein the scheme includes $n \times m$ intra-block prediction with a prediction direction, where n and m are integers greater than 1,

wherein the intra-block prediction mode selected in the coding of a block is indicated in the coded video pictures;

wherein the video pictures are acquired, coded, transmitted, decoded, and displayed;

the method comprising:

processing the video pictures according to the known scheme;

identifying the quantization parameter;

identifying the prediction mode for an $n \times m$ block being processed;

if the quantization parameter is above a threshold, the prediction mode has a prediction direction and the prediction direction is a "second quadrant direction" or a "fourth quadrant direction," then processing the block through a filter, and

continuing processing the video pictures.

- 18. The method in Claim 17, wherein the processing the block through a filter is after the block being decoded according to the selected prediction mode and before the block being displayed.
- 19. The method in Claim 18, wherein the filter is a one-dimensional horizontal filter.
 - 20. The method in Claim 19, wherein the filter is an *l*-tap FIR filter.
- 21. The method in Claim 20, wherein the *l*-tap FIR filter is a 3-tap [1/4, 1/2, 1/4] FIR filter.
 - 22. The method in Claim 18, wherein the filter is a one-dimensional vertical filter.
 - 23. The method in Claim 18, wherein the filter is a two-dimensional filter.
- 24. The method in Claim 17, wherein the known scheme includes a decoding process in compliance with H.264.
- 25. The method in Claim 24, wherein the prediction direction is one of the directions of mode 3, mode 7 or mode 8 of the intra-block prediction modes of H.264.
 - 26. The method in Claim 25, wherein the threshold is between 20 and 35.
 - 27. The method in Claim 26, wherein the $n \times m$ block is the 4x4 block.

- 28. The method in Claim 27, wherein the processing the block through a filter is after the block being decoded according to the selected prediction mode.
- 29. The method in Claim 28, wherein the filter is a one-dimensional horizontal filter.
 - 30. The method in Claim 29, wherein the filter is a 3-tap [1/4, 1/2, 1/4] FIR filter.
 - 31. The method in Claim 28, wherein the filter is a one-dimensional vertical filter.
 - 32. The method in Claim 28, wherein the filter is a two-dimensional filter.
- 33. The method in Claim 27, further comprising:

 processing the 16x16 macroblock through the filter, wherein the 4x4 block is a
 portion of the 16x16 macroblock.
- 34. A method for improving video picture processing according to a known scheme,

wherein the scheme includes $n \times m$ intra-block prediction with a prediction direction, where n and m are integers greater than 1,

wherein the intra-block prediction mode selected in the coding of a block is indicated in the coded bit stream;

wherein the video pictures are acquired, coded, transmitted, decoded, and displayed; the method comprising:

filtering the video pictures with a filter, wherein the filter is operative to smooth the edges of objects in the pictures, wherein the edges having an orientation in a second quadrant direction or a fourth quadrant direction;

wherein the filter is operative to leave all other areas of the picture unaffected; encoding the video pictures according to the known scheme; and generating bit stream.

- 35. The method in Claim 34, wherein the known scheme includes a decoding process in compliance with H.264.
- 36. A video picture sequence produced by a codec process in compliance with H.264, wherein the decoding process includes intra-block prediction decoding, and an additional filtering process, the picture sequence comprising:

a plurality of frames of pictures;

an object having an edge oriented in a second quadrant direction or a fourth quadrant direction, wherein the edge moves from frame to frame;

wherein the vicinity of the edge is substantially free of sparkle pixels.

- 37. The video picture of Claim 36, wherein the vicinity of the edge is the area within 4 pixels horizontally away from the edge on either sides of the edge.
 - 38. A video picture produced by the method in any one of claims 1-17 and 34.
 - 49. A computer system comprising:

a central processing unit,

a memory module;

wherein the central processing unit is operative to perform the method in any one of claims 1-17 and 34.

40. A computer readable medium containing computer executable program operative to perform the method in any one of claims 1-17 and 34.